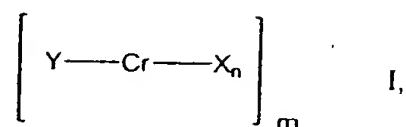


IN THE CLAIMS

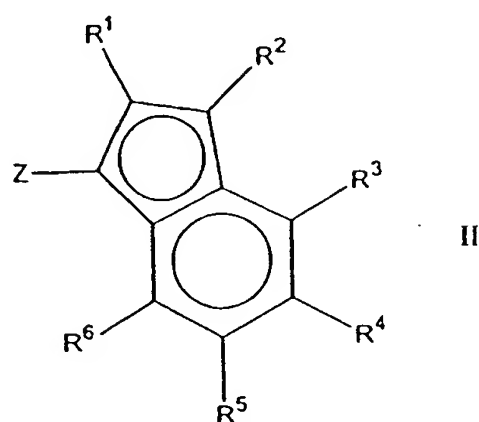
1. (currently amended) A copolymer of ethylene with C_3-C_{12} - α -olefins C_3-C_9 - α -olefins, which has a polydispersity M_w/M_n of \leq from 2 to 10, a density of from 0.85 to ~~0.95~~ 0.93 g/cm³, a proportion of from 1 to 40% by weight of comonomer and a molar mass M_n above 150,000 g/mol and a comonomer composition distribution index above 70%.
- 2-12. (canceled)
13. (previously presented) The copolymer as claimed in claim 1, wherein said density is from 0.88 to 0.93 g/cm³.
14. (previously presented) The copolymer as claimed in claim 1, wherein said comonomer composition distribution breadth index is above 90%.
15. (previously presented) The copolymer as claimed in claim 1, wherein said α -olefins are selected from the group consisting of propene, 1-butene, 1-hexene and 1-octene.
16. (previously presented) The copolymer as claimed in claim 1, wherein said polydispersity M_w/M_n is from 2 to 4.
17. (previously presented) The copolymer as claimed in claim 1, wherein said molecular weight M_n is above 200,000 g/mol.
18. (previously presented) A process for preparing ethylene copolymers as claimed in claim 1, which comprises carrying out the process in the presence of the following components:
 - (A) a substituted monoindenyl chromium complex or a substituted

monofluorenylchromium complex of the formula I



wherein

Y has the following fomula II



wherein

Z is an unsubstituted, substituted or condensed heteroaromatic ring system,

X independently of one another, are fluorine, chlorine, bromine, iodine, hydrogen, C₁-C₁₀-alkyl, C₂-C₁₀-alkenyl, C₆-C₂₀-aryl, alkylaryl having from 1-10 carbon atoms in the alkyl radical and from 6-20 carbon atoms in the aryl radical, NR⁷R⁸, OR⁷, SR⁷, SO₃R⁷, OC(O)R⁷, CN, SCN, β-diketonate, CO, BF₄⁻, PF₆⁻ or bulky noncoordinating anions,

R¹-R⁸ independently of one another, are hydrogen, C₁-C₂₀-alkyl, C₂-C₂₀-alkenyl, C₆-C₂₀-aryl, alkylaryl having from 1 to 10 carbon atoms in the alkyl radical and from 6-20 carbon atoms in the aryl radical,

SiR⁹₃, wherein the organic radicals R¹-R⁸ optionally have halogen substituted and

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any two geminal or vicinal radicals R^1 - R^8 optionally have been bonded to give a 5- or 6-membered aromatic or aliphatic ring,

R^9 independently of one another, are hydrogen, C_1 - C_{20} -alkyl, C_2 - C_{20} -alkenyl, C_6 - C_{20} -aryl, alkylaryl having from 1 to 10 carbon atoms in the alkyl radical and from 6-20 carbon atoms in the aryl radical, or wherein the two geminal radicals R^9 have been bonded to give a five- or six-membered ring,

n is 1, 2 or 3, and

m is 1, 2 or 3,

and

optionally (B) one or more activator compounds.

19. (previously presented) The process as claimed in claim 18, wherein Z is an unsubstituted or substituted 8-(quinolyl) system and R^1 - R^6 are hydrogen.
20. (previously presented) The process as claimed in claim 18, wherein the activator compound (B) is used and is compound selected from the group consisting of aluminoxane, dimethylanilinium tetrakis(pentafluorophenyl)borate, trityl tetrakis(pentafluorophenyl)borate and tris(pentafluorophenyl)borane.
21. (currently amended) A polymer mixture which comprises said at least one of the copolymer of ethylene with C_3 - C_9 - α -olefins as claimed in claim 1.
22. (currently amended) A fiber, a film or a molding which comprises the copolymer of ethylene with C_3 - C_9 - α -olefins as claimed in claim 1.
23. (previously presented) A fiber, a film or a molding which comprises the

copolymers of ethylene with C₃-C₁₂- α -olefins as claimed in claim 1.

24. (previously presented) The process claimed in claim 18, wherein said α -olefins are selected from the group consisting of propene, 1-butene, 1-hexene and 1-octene.
25. (previously presented) The process claimed in claim 24, wherein said polydispersity Mw/Mn is from 2 to 4.
26. (previously presented) The copolymer as claimed in claim 25, wherein said molecular weight Mn is above 200,000 g/mol.
27. (previously presented) The process as claimed in claim 19, wherein the activator compound (B) is used and is a compound selected from the group consisting of aluminoxane, dimethylanilinium tetrakis(pentafluorophenyl)borate, trityl tetrakis(pentafluorophenyl)borate and tris(pentafluorophenyl)borane.
28. (previously presented) The copolymer of claim 13, wherein the comonomer composition distribution breadth index is above 90%, the α -olefins are selected from the group consisting of propene, 1-butene, 1-hexene and 1-octene, polydispersity M₂/Mn is from 2 to 4 and molecular weight Mn is above 200,000 g/mol.
29. (previously presented) The copolymers of claim 28 wherein the comonomer is hexene-1.
30. (previously presented) The copolymer of claim 29 wherein the CDBI is about 95%.